

Anaplasmosis – October is the peak month for diagnosis of clinical disease at NCVDLs, but diagnosis of this disease does occur throughout the year. A competitive ELISA test on serum is available and a positive result indicates exposure (natural or vaccine) and carrier status and can confirm clinical disease if anemia and/or icterus and parasitized red blood cells are also present. Dead cattle are usually the first clinical sign seen and thus a necropsy is needed to diagnose the disease. Necropsy with Anaplasma PCR is recommended for any sudden death of 3+ year old cows. Wolbach’s Giemsa stain on a blood smear can provide a presumptive diagnosis. PCR of serum, liver or spleen, via referral testing, with appropriate clinical history or necropsy lesions can be a definitive test.

Test Name	Recommended Samples	In-state Price*	Details	Lab/Section/Testing Schedule	Turn Around Time
Anaplasma cELISA	Serum (1 ml minimum)	\$4.50	Positive result indicates exposure (natural or vaccine). Diagnosis of anemia +/- icterus and parasitized RBCs confirms clinical disease with positive serology.	Rollins/Sero/T, Th	3-5 days
Wolbach’s Giemsa Cytology	Two or more blood smear slides (preferred) or 1-2 ml of EDTA whole blood.	\$30.00	Stains <i>Anaplasma</i> organisms on red blood cells. Most sensitive in cases of acute anemia.	Rollins/Cyto/M,W,Th	2-4 days
Necropsy	Freshly dead body	\$50.00 + disposal fee of \$25/250 lbs, up to \$100	Anaplasmosis causes anemia in cattle with highest mortality in cattle 3+ years of age. A freshly dead animal is extremely important to the value of the necropsy and additional testing. Additional testing is determined by veterinarian and tests done at NCVDLs are included in necropsy fee.	All/Necropsy/M-F	3-21 days
Histopathology (field necropsy)	formalin fixed tissues – liver, spleen, lung, kidney, heart, other organs based on lesions or clinical signs	\$45.00 for the first 4 slides, \$5 for each additional slide.	Field necropsy –include fresh liver and spleen for possible referral testing. Adequate formalin fixation (10:1 – formalin:tissue) is critical. Tissue sections < ¼” thick.	Rollins/Histo/M-F	2-3 days
<i>Anaplasma marginale</i> rtPCR referral	1-2 mL EDTA whole blood and/or 1-2 grams of fresh tissue (spleen, lung, liver, kidney)	\$28.00 test, \$7.00 accession fee, and \$20 for shipping	Referral - Positive result with appropriate clinical history and lesions is definitive.	Texas Veterinary Medical Diagnostic Laboratory.	5-10 days

* Out-of-state submissions are charged at two times the in-state rate. See fee schedule for details.

A \$2.00 accession fee is applied to each case.